

Day in the Life of the Hudson River 10/05/2023

Kingsland Point Park, Sleepy Hollow, NY

RIVER MILE: 28.5

Salt Front: ~ 52

Pleasantville High School-Brian Rivenburg

Westchester Planning Department- Nicole Liable

Teatown- Marie Roche

34 students, 11th and 12th grade, 6 adults

Latitude 41.08969°N & Longitude -73.87032°W

Location: Kingsland Point Park, Sleepy Hollow, Westchester County, NY

Surrounding Land Use: 100% Park

Sampling Site: Forested area, park, pier, kayak/boat launch, beach with altered banks

Shoreline: 99% Sandy & 1% Rocky

Water: Calm

River Bottom: Sandy

Plants in the water: No Plants in the water

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>	
Physical					
<i>Air Temperature</i>	9:33 AM	17.2° C	63° F		
	10:16 AM	22.1° C	71.8° F		
	11:10 AM	25.3° C	77.5° F		
<i>Wind Speed:</i>	11:00 AM	<i>Anemometer</i>	<i>Beaufort</i> 0-1	<i>Direction</i> North	
<i>Weather today</i>	11:00 AM	<25% Cloud Cover	No Rain		
<i>Weather the past 3 days:</i>	No Rain, unusually warm temps, 83°F the day before our readings. Almost no wind 0-1 on Beaufort for most of the day				
<i>Tides- Tide Stick</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Height (cm)</i>	
	9:33 AM	-		0 cm	
	10:11 AM	Rising		7 cm	
	10:34 AM	Rising		14 cm	
	11:05 AM	Rising		26 cm	
	11:39 AM	Rising		35 cm	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Slack</i>
*Difficult to take reading because in a sheltered cove	9:30 AM				Flood
<i>Water Temperature-</i>	9:34 AM	19°C	66.2°F		
	10:08 AM	20°C	68°F		
	11:12 AM	20°C	68°F		
<i>Turbidity- Long Sight Tube (120 cm)</i>	10:01 AM	109.1 cm			
	10:30 AM	120 cm			
	11:35 AM	120 cm			
Chemical					
<i>Standardized Salinity- High Range Quantabs - 5.2 qt units</i>	11:55 AM	1199 ppm Cl ⁻		2,166 ppm TS	2.2 ppt TS
<i>Student Salinity- High Range Quantabs</i>	9:37 AM	2235 ppm Cl ⁻		4038 ppm TS	4 ppt TS
	10:29 AM	2067 ppm Cl ⁻		3734 ppm TS	3.7 ppt TS
	11:29 AM	2067 ppm Cl ⁻		3734 ppm TS	3.7 ppt TS
<i>Hydrometer</i>	9:37 AM			6.5 ppt total salinity	
	10:29 AM			6.0 ppt TS	

<i>DO – Drop Count Kit</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>		
	9:55 AM	19°C	10 ppm	106%		
	10:18 AM	20°C	10 ppm	110%		
	10:44 AM	20°C	10 ppm	110%		
<i>pH – Color Match Kit</i>	9:58 AM	7.4				
	10:22 AM	7.4				
	10:53 AM	7.4				
<i>Biological</i>						
<i>Fish-Seine (9 Hauls)</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Notes</i>		
9:45 AM-11:30 AM	21	Atlantic Silverside	9.25 cm			
	3	Striped Bass	14 cm			
Fish Totals	TOTAL: 24	Diversity: 2				
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>			
Macroinvertebrate Totals	TOTAL: 0	Diversity: 0				
<i>Sediment Core</i>	<i>Time</i>	<i>Oxid Top</i>	<i>H₂S Smell</i>	<i>Oil</i>	<i>Grain Size</i>	<i>Other Features</i>
		No	No	No	Abundant: sand, gravel Common: pebbles Rare: mud	Common: coal, brick, slag Rare: leaves, oyster shells

Boats					
Commercial/ Recreational	Time	Type	Color	Southbound/ Northbound	Light/ Loaded
Commercial	9:33	Barge	Brown	Southbound	Loaded
Commercial	9:52	Barge	Green	Northbound	Loaded
Commercial	10:51	Barge	Red	Northbound	Loaded
Commercial	11:01	Barge		Northbound	Loaded
Recreational	10:23	Cruiser	White	Southbound	
Recreational	10:34	Sailboat	White	Southbound	